

1 *What Is Claimed Is:*

2
3 1. An isolated nucleic acid molecule comprising a polynucleotide having
4 a nucleotide sequence at least 95% identical to a sequence selected from the group
5 consisting of:

6 (a) a polynucleotide fragment of SEQ ID NO:X or a polynucleotide fragment
7 of the cDNA sequence included in ATCC Deposit No:Z, which is hybridizable to
8 SEQ ID NO:X;

9 (b) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y or a
10 polypeptide fragment encoded by the cDNA sequence included in ATCC Deposit
11 No:Z, which is hybridizable to SEQ ID NO:X;

12 (c) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y or a
13 polypeptide domain encoded by the cDNA sequence included in ATCC Deposit
14 No:Z, which is hybridizable to SEQ ID NO:X;

15 (d) a polynucleotide encoding a polypeptide epitope of SEQ ID NO:Y or a
16 polypeptide epitope encoded by the cDNA sequence included in ATCC Deposit
17 No:Z, which is hybridizable to SEQ ID NO:X;

18 (e) a polynucleotide encoding a polypeptide of SEQ ID NO:Y or the cDNA
19 sequence included in ATCC Deposit No:Z, which is hybridizable to SEQ ID NO:X,
20 having biological activity;

21 (f) a polynucleotide which is a variant of SEQ ID NO:X;

22 (g) a polynucleotide which is an allelic variant of SEQ ID NO:X;

23 (h) a polynucleotide which encodes a species homologue of the SEQ ID
24 NO:Y;

25 (i) a polynucleotide capable of hybridizing under stringent conditions to any
26 one of the polynucleotides specified in (a)-(h), wherein said polynucleotide does not
27 hybridize under stringent conditions to a nucleic acid molecule having a nucleotide
28 sequence of only A residues or of only T residues.

29
30 2. The isolated nucleic acid molecule of claim 1, wherein the
31 polynucleotide fragment comprises a nucleotide sequence encoding a secreted
32 protein.

1
2 3. The isolated nucleic acid molecule of claim 1, wherein the
3 polynucleotide fragment comprises a nucleotide sequence encoding the sequence
4 identified as SEQ ID NO:Y or the polypeptide encoded by the cDNA sequence
5 included in ATCC Deposit No:Z, which is hybridizable to SEQ ID NO:X.

6
7 4. The isolated nucleic acid molecule of claim 1, wherein the
8 polynucleotide fragment comprises the entire nucleotide sequence of SEQ ID NO:X
9 or the cDNA sequence included in ATCC Deposit No:Z, which is hybridizable to
10 SEQ ID NO:X.

11
12 5. The isolated nucleic acid molecule of claim 2, wherein the nucleotide
13 sequence comprises sequential nucleotide deletions from either the C-terminus or the
14 N-terminus.

15
16 6. The isolated nucleic acid molecule of claim 3, wherein the nucleotide
17 sequence comprises sequential nucleotide deletions from either the C-terminus or the
18 N-terminus.

19
20 7. A recombinant vector comprising the isolated nucleic acid molecule of
21 claim 1.

22
23 8. A method of making a recombinant host cell comprising the isolated
24 nucleic acid molecule of claim 1.

25
26 9. A recombinant host cell produced by the method of claim 8.

27
28 10. The recombinant host cell of claim 9 comprising vector sequences.

29
30 11. An isolated polypeptide comprising an amino acid sequence at least
31 95% identical to a sequence selected from the group consisting of:

1 (a) a polypeptide fragment of SEQ ID NO:Y or the encoded sequence
2 included in ATCC Deposit No:Z;

3 (b) a polypeptide fragment of SEQ ID NO:Y or the encoded sequence
4 included in ATCC Deposit No:Z, having biological activity;

5 (c) a polypeptide domain of SEQ ID NO:Y or the encoded sequence included
6 in ATCC Deposit No:Z;

7 (d) a polypeptide epitope of SEQ ID NO:Y or the encoded sequence included
8 in ATCC Deposit No:Z;

9 (e) a secreted form of SEQ ID NO:Y or the encoded sequence included in
10 ATCC Deposit No:Z;

11 (f) a full length protein of SEQ ID NO:Y or the encoded sequence included in
12 ATCC Deposit No:Z;

13 (g) a variant of SEQ ID NO:Y;

14 (h) an allelic variant of SEQ ID NO:Y; or

15 (i) a species homologue of the SEQ ID NO:Y.

16 12. The isolated polypeptide of claim 11, wherein the secreted form or the
17 full length protein comprises sequential amino acid deletions from either the C-
18 terminus or the N-terminus.

19
20 13. An isolated antibody that binds specifically to the isolated polypeptide
21 of claim 11.

22
23 14. A recombinant host cell that expresses the isolated polypeptide of
24 claim 11.

25
26 15. A method of making an isolated polypeptide comprising:
27 (a) culturing the recombinant host cell of claim 14 under conditions such that
28 said polypeptide is expressed; and

29 (b) recovering said polypeptide.

30
31 16. The polypeptide produced by claim 15.

1 17. A method for preventing, treating, or ameliorating a medical condition,
2 comprising administering to a mammalian subject a therapeutically effective amount
3 of the polypeptide of claim 11 or the polynucleotide of claim 1.

4
5 18. A method of diagnosing a pathological condition or a susceptibility to
6 a pathological condition in a subject comprising:

7 (a) determining the presence or absence of a mutation in the polynucleotide of
8 claim 1; and

9 (b) diagnosing a pathological condition or a susceptibility to a pathological
10 condition based on the presence or absence of said mutation.

11
12 19. A method of diagnosing a pathological condition or a susceptibility to
13 a pathological condition in a subject comprising:

14 (a) determining the presence or amount of expression of the polypeptide of
15 claim 11 in a biological sample; and

16 (b) diagnosing a pathological condition or a susceptibility to a pathological
17 condition based on the presence or amount of expression of the polypeptide.

18
19 20. A method for identifying a binding partner to the polypeptide of claim
20 11 comprising:

21 (a) contacting the polypeptide of claim 11 with a binding partner; and

22 (b) determining whether the binding partner effects an activity of the
23 polypeptide.

24
25 21. The gene corresponding to the cDNA sequence of SEQ ID NO:Y.

1 22. A method of identifying an activity in a biological assay, wherein the
2 method comprises:

- 3 (a) expressing SEQ ID NO:X in a cell;
4 (b) isolating the supernatant;
5 (c) detecting an activity in a biological assay; and
6 (d) identifying the protein in the supernatant having the activity.

7
8 23. The product produced by the method of claim 20.

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